TEST CASE ID	•	0701				
TEST CASE NA	ME:	Validate User Request				
PURPOSE:	analysis output	product. Ve	otance of a user- rify error checkin ecall of user-def	ng for incorre	ct user input. Vo	
DESCRIPTION:	of invalid reque Demonstrate s	sts (invalid ti uccessful sa	alysis products ( mes, invalid mno ve and recall of o ality from an Ana	emonic name user-defined	es, missing field request files. T	s, etc.).
LVL-1 THREADS:						
LVL-2 THREADS:	7.2.1.1					
TEST_INPUTS:	User input to d	efine and cre	ate analysis req	uests		
PREREQUISITES:	Available CCS (XRUNNER sc		B50A has been 1)	loaded, test	automation soft	ware
EXPECTED RESULTS:		analysis req	ests for analysis Juests. Acceptan ocesses.			
EVAL. CRITERIA:	Verify that erro	neous input s	ed by the user is selections are no g of invalid input.	ot accepted b		

TEST CASE ID:		070	02													
TEST CASE NA	AME:	Pro	ОСЕ	ess l	Use	er R	Req	ues	t fo	r Ou	ıtp	ut				
PURPOSE:	Verify the accreporting of p								est fo	r ana	lysi	s pro	ocess	ing. \	/erif	у
DESCRIPTION:	Submit user	reques	sts f	for an	alys	is pr	oces	sing								
LVL-1 THREADS:																
LVL-2 THREADS:	7.2.1.2 7.2.2.1p 7.2.2.2 7.2.2.3 7.2.2.4 7.2.7.1 7.2.7.2 7.2.7.3															
TEST_INPUTS:	User-defined	l reque	ests	creat	ted	in Te	est C	ase	#070	1						
PREREQUISITES:	Available CC	S, tes	st da	ıta, te	st au	utom	ation	n soft	ware	(XRI	JN	NER	) scri	pts		
EXPECTED RESULTS:	Acceptance of status to the		er-de	efined	l req	uest	for o	outpu	ıt. Co	rrect	rep	ortir	ng of p	oroce	essin	ıg
EVAL. CRITERIA:	Verify that reverify that mupdates are	ultiple	sub	omiss	ions	are										

TEST CASE ID	TEST CASE ID:			_
TEST CASE NA	ME:	Produce Analysi	s Output Prod	duct
PURPOSE:	,	uction of the requested ocessing are correctly		Verify that the results of er.
DESCRIPTION:	Receive reque	sted analysis products		
LVL-1 THREADS:				
LVL-2 THREADS:	7.2.2.1p 7.2.8.1 7.2.7.4			
TEST_INPUTS:	User-defined r	quests created in Tes	t Case #0701	
PREREQUISITES:	Available CCS	test data, test automa	tion software (XRU	NNER) scripts
EXPECTED RESULTS:				ipt of a status message of be provided, and why.
EVAL. CRITERIA:		eipt of the requested o data input to CCS to verified.		

TEST CASE ID:

TEST CASE NAME:

All R/T ENG Formats

**PURPOSE:** Verify the capability to detect all valid HST ENG TLM formats based on database

defined format IDs. Verify that invalid format IDs are detected and not

processed

**DESCRIPTION:** XMT valid ENG TLM. Observe the display pages. Run ANALYSIS queries to verify

the format ID of the stored data. Repeat this process for each valid HST ENG

format ID.Attempt invalid format ID data transmission.

LVL-1 THREADS:

1.1.1 7.1.1 7.1.2 7.1.8 7.1.7 17.1.4 16.1.1 17.1.1

LVL-2 THREADS:

**TEST INPUTS:** Test display page:1702

PSS scenario files:

1702ALL.SCN,1702TF.SCN,1702TN.SCN,1702AF.SCN,1702AN.SCN,1702AF.SCN,1702FF.SCN,1702FN.SCN,1702PF.SCN,1702PN.SCN,1702XF.SCN,1702YN,SCN,1702ZF.SCN,1702ZN.SCN,1702ZF.SCN,1702ZF.SCN,1702ZF.SCN,1702ZF.SCN,1702DD.SCN,1702HN.SCN,1702C.SCN,1702D5.SCN,1702S.SCN,1702D

4.SCN,1702BAD.SCN Xrunner script files:

main1702,login1702,rtpage1702,datreq1702,jobstat1702

PREREQUISITES: | Available CCS:Test Simulator/Data, Test Automation Software, GPS time source

EXPECTED RESULTS:

FEP accepts every HST ENG TLM format. All valid formats are archived. Invalid

FMTs are discarded. FMT ID is correctly displayed on page.

Backup material: Excel spreadsheet:1702.res

**EVAL. CRITERIA:** 

Verify that the ANALYSIS output lists the correct format ID.Compare with test

data inputs. Verify that the display page lists the correct FMT ID

TEST CASE ID: 1706

TEST CASE NAME: Special Raw Data Decommutation

**PURPOSE:** Verify the assembly of raw data from multiple and non-contiguous bits and words.

Verify the capability of the FEP to interface with JSC for real-time engineering telemetry. Verify the capability to ingest and store engineering data from

ORU/ORIs.

**DESCRIPTION:** XMT ENG data to DMG. Observe values on display pages. Following data

dropout, run ANALYSIS gueries to verify raw and EU converted value of the

stored test mnemonics.

LVL-1 THREADS: 1.1.1

1.1.1 17.1.1 16.1.1 7.1.1 17.1.4 7.1.2 7.1.8 7.1.7

LVL-2 THREADS:

**TEST\_INPUTS:** Test display page:1706

PSS disk files:1706.an,1706.hn,1706.de

PSS scenario files::1706.scn

Xrunner script files:

main1706,login1706,rtpage1706,datreq1706,jobstat1706

PREREQUISITES: Available CCS: PSS, Test Automation S/W, GPS time source

EXPECTED TLM parameters with multiple 'pieces' are constructed from the database

RESULTS: definition(start bit, number of bits, location of data in downlink, storage location for

data).

Backup material:Excel spreadsheet:1706AN.RES,1706HN.RES,1706DE.RES

EVAL. CRITERIA: Verify that the ANALYSIS reports values which correspond to the test data inputs

TECT CACE ID						
TEST CASE ID		1709				
TEST CASE NA	ME:	Engineering Unit (EU) Conversio				
PURPOSE:		to correctly convert raw PCM co tained in the database	unts to EU based on calibration			
DESCRIPTION:	XMT ENG data to DMG. Observe values on the display pages. ANALYSIS queries will be run to verify stored values.					
LVL-1 THREADS:	1.1.1 7.1.2 7.1.1 7.1.8 7.1.7 16.1.1 17.1.1					
LVL-2 THREADS:						
TEST_INPUTS:	PSS scenario	1709.an, 1709.hn 1709.de	702,datreq1702,jobstat1702			
PREREQUISITES:	Available CCS	PSS, Test Automation S/W, GPS	Stime source			
EXPECTED RESULTS:	EU conversion	based on calibration coefficients	contained in the database.			
EVAL. CRITERIA:	_	NALYSIS output lists the raw PC	M count and the corresponding			

TEST CASE ID	•	1711	
TEST CASE NAME:		Limits Sensing	
PURPOSE:		bility to limit check any decommutate in the database. Verify that the test d	
DESCRIPTION:	pages for the s	to DMG. Observe the limit violation i elected test mnemonics. Following d run to verify limit violations	
LVL-1 THREADS:	1.1.1 16.1.1 17.1.1 17.1.4 7.1.1 7.1.8 7.1.2 7.1.7		
LVL-2 THREADS:			
TEST_INPUTS:	PSS disk files: PSS Scenario Xrunner script		t1711
PREREQUISITES:	Available CCS	PSS, Test Automation S/W,GPS time	e source
EXPECTED RESULTS:		g based on limit values defined in the al:Excel spreadsheet:1711AN.RES,1	

EVAL. CRITERIA: Verify that the limit violations listed in the ANALYSIS output and on the display

pages correspond to the values defined in the database. Compare with test data

TEST CASE ID:		1716				
TEST CASE NA	ME:	Delta Noise Screening				
PURPOSE:	Verify the capa	ability to apply delta values to TLM parameters as defined in the				
DESCRIPTION:	XMT ENG dat	a to DMG. Following data dropout, run ANALYSIS queries to verify correctly indicate DELTA errors.				
LVL-1 THREADS:	7.1.2 1.1.1 17.1.1 7.1.7 17.1.4 7.1.8 16.1.1 7.1.1					
LVL-2 THREADS:						
TEST_INPUTS:	PSS scenario Xrunner script	716.AN,1716.HN.1716.DE files:1716.SCN				
PREREQUISITES:	Available CCS	S: PSS, Test Automation S/W,GPS time source				
EXPECTED RESULTS:	DELTA noise	screening based on delta values defined in the database				
EVAL. CRITERIA:		delta errors listed listed in the ANALYSIS output correspond to the lin the database. Compare with test data inputs				

TEST CASE ID:	1721	
TEST CASE NAME:	File Catalog Table Update	

**PURPOSE:** To verify that the engineering telemetry was received and stored, and the file

catalog is updated upon ingest.

**DESCRIPTION:** FEP sends engineering telemetry FOF packets to DMG for data ingest. DMG

stores the data on the DIA volume (note: there are several FOF packets in each ingest file. In the continuous telemetry transmission state, files holds one hour of

telemetry data). Verify file catalog table entry.

LVL-1 THREADS:

LVL-2 THREADS: 17.2.4.1

17.2.4.2 17.2.4.6

TEST INPUTS: HN formatted telemetry with SCT, CCS time, and NGT parameters.

PREREQUISITES: Test Case 1723 and 1725, available CCS, FEP, PSS, SQL procedures to view

the Telemetry Catalog (list.sql), adequate disk space for up to four hours of

continuous telemetry data. Xrunner test script main1721.

**EXPECTED RESULTS:**All FOF packets sent are placed in storage by the Real-Time Ingest process. Each stored file in the ingest area holds one hour of telemetry data. Upon

receiving the FOF end of file, Real-Time Ingest request a catalog entry to the Manage CCS DB process where the File Catalog Table Update subprocess

handles updating the file catalog.

EVAL. CRITERIA: Note all files in the storage area before and after data ingest. Verify that all ENG

TLM packets ingest are properly stored in Intermediate File storage area. Verify data is not inadvertently deleted. Verify the catalog corresponds to the storage

area. Verify the state information is correct.

TEST CASE ID	:	723			
TEST CASE NA	ME:	oad PRD from flat file	e to DM	G	
PURPOSE:	To verify that P	RD flat file can be properly loa	aded into D	MG Oracle.	
DESCRIPTION:	Perform PRD fl	at file loads to Oracle in data	manageme	ent.	
LVL-1 THREADS:					
LVL-2 THREADS:					
TEST_INPUTS:	CCS time, PRD	flat file for v25 and v50A.			
PREREQUISITES:	of current tables the PRD: load_	FEP, SQL procedures to dele s (delete_perm_tables.sql), vio script1, load_script2, and load Xrunner test script main172	ew the PRI I_script3. <i>A</i>	catalog, and to o	query
EXPECTED	All PRD loads a	re placed in storage. Catalog	g entry for e	each PRD load.	
RESULTS:					
EVAL. CRITERIA:	PRD loads are	es in the storage area before a properly stored. Verify data is pends to the storage area. Ver	not inadve	tently deleted. Ve	

**EVAL. CRITERIA:** Visually verify the results of the test during the test run.

TEST CASE ID	TEST CASE ID:					
TEST CASE NA	ME:	User-Defrined Pages				
PURPOSE:	Verify that the the user can m	new page can b	S user the facilitie e saved for later u age window and c iirements.	use and t	then recalled. Ve	erify that
DESCRIPTION:	appropriate me	nu options to bu	Select Real-time Fuild a new page, soy of the final pag	save the	page, and then i	
LVL-1 THREADS:	6 7 17A					
LVL-2 THREADS:						
TEST_INPUTS:	Xrunner script	main1750 and a	all scripts called by	y main17	<b>'</b> 50.	
PREREQUISITES:		d in nominal sta to animate mair	te.Tester logged i n1750 script.	nto a CC	S user workstat	ion.
EXPECTED RESULTS:	mnemonics. C	bserve the page	ccessfully build a e being saved and and components	d then re	called and redis	played.

TEST CASE ID:  TEST CASE NAME:  MSKVIEW Pages  Verify the CCS is capable of storing and displaying existing MSKVIEW pages. Verify the MSKVIEW displays the correct values for HST TLM.  DESCRIPTION:  Login to CCS main page. Select MSK View from Tool Bar. Select two MSKVIEW to be displayed containing HST mnemonics. Simultaneously run test case 1706 on an adjacent CCS workstation. Observe that the mnemonic values are the same, where appropriate, between the 1706 Real-time page and the MSKVIEW. Attempt to resize an MSKVIEW page. Manually capture display pages and print from both workstations as needed.  LVL-1 THREADS:  TLM data and Excel spreadsheets containing expected results for test case 1706 feet case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:  CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706 extended and shows alphanumeric and labeled components. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an MSKVIEW page is not resizeable.								
PURPOSE:  Verify the CCS is capable of storing and displaying existing MSKVIEW pages. Verify the MSKVIEW displays the correct values for HST TLM.  DESCRIPTION:  Login to CCS main page. Select MSK View from Tool Bar. Select two MSKVIEW to be displayed containing HST mnemonics. Simultaneously run test case 1706 on an adjacent CCS workstation. Observe that the mnemonic values are the same, where appropriate, between the 1706 Real-time page and the MSKVIEW. Attempt to resize an MSKVIEW page. Manually capture display pages and print from both workstations as needed.  LVL-1 THREADS:  TLM data and Excel spreadsheets containing expected results for test case 1706 (refer to test case 1706 test case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:  CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706 EXPECTED RESULTS:  Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	TEST CASE ID	1752	)					
Verify the MSKVIEW displays the correct values for HST TLM.    DESCRIPTION:   Login to CCS main page. Select MSK View from Tool Bar. Select two MSKVIEW to be displayed containing HST mnemonics. Simultaneously run test case 1706 on an adjacent CCS workstation. Observe that the mnemonic values are the same, where appropriate, between the 1706 Real-time page and the MSKVIEW. Attempt to resize an MSKVIEW page. Manually capture display pages and print from both workstations as needed.    LVL-1 THREADS:	TEST CASE NA	ME:	MSK	MSKVIEW Pages				
Verify the MSKVIEW displays the correct values for HST TLM.    DESCRIPTION:   Login to CCS main page. Select MSK View from Tool Bar. Select two MSKVIEW to be displayed containing HST mnemonics. Simultaneously run test case 1706 on an adjacent CCS workstation. Observe that the mnemonic values are the same, where appropriate, between the 1706 Real-time page and the MSKVIEW. Attempt to resize an MSKVIEW page. Manually capture display pages and print from both workstations as needed.    LVL-1 THREADS:	PURPOSE:	Verify the CCS	S is cap	able of stor	ing and displa	aying existii	ng MSKVIEW	pages.
to be displayed containing HST mnemonics. Simultaneously run test case 1706 on an adjacent CCS workstation. Observe that the mnemonic values are the same, where appropriate, between the 1706 Real-time page and the MSKVIEW. Attempt to resize an MSKVIEW page. Manually capture display pages and print from both workstations as needed.  LVL-1 THREADS:    TLM data and Excel spreadsheets containing expected results for test case 1706 (refer to test case 1706 test case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:    CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706   EXPECTED   Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an								
TEST_INPUTS:  TEST_INPUTS:  TLM data and Excel spreadsheets containing expected results for test case 1706 (refer to test case 1706 test case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:  CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706  EXPECTED RESULTS:  Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	DESCRIPTION:	to be displayed on an adjacent same, where a Attempt to resi	d conta t CCS v appropr ize an N	ining HST r workstation iate, betwe //SKVIEW p	mnemonics. S . Observe that en the 1706 F Dage. Manual	Simultaneo at the mne Real-time p	usly run test ca monic values a page and the M	ase 1706 are the //SKVIEWs
TEST_INPUTS:  TLM data and Excel spreadsheets containing expected results for test case 1706 (refer to test case 1706 test case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:  CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706 (Deserve that CCS provides the user a list of available MSKVIEWs to open.)  Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	LVL-1 THREADS:	7						
(refer to test case 1706 test case description). Xrunner script main1752 and all scripts called by main1752.  PREREQUISITES:  CCS and PSS online and in nominal state. Tester logged into two CCS workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706  EXPECTED  RESULTS:  Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	LVL-2 THREADS:							
workstation. Xrunner ready to animate main1752 and main1706 scripts on adjacent workstations. PSS ready to output TLM associated with test case 1706  EXPECTED RESULTS:  Observe that CCS provides the user a list of available MSKVIEWs to open. Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	TEST_INPUTS:	(refer to test ca	ase 170	6 test case				
<b>RESULTS:</b> Observe that the MSKVIEW is displayed and shows alphanumeric and labeled components. Observe that the MSKVIEW displays correct values for several mnemonics as compared to the real-time page for 1706. Observe that an	PREREQUISITES:	workstation. Xi	runner	ready to an	imate main17	752 and ma	ain1706 scripts	s on
	_	Observe that the components. Components as	he MSk Observe s compa	(VIEW is di that the Mared to the	splayed and s SKVIEW disp real-time pag	shows alph plays corre	nanumeric and ct values for s	i labeled everal

EVAL. CRITERIA: Visually verify the results of the test during the test run.

TEST CASE ID:		1753				
TEST CASE NA	ME:	Page Components				
PURPOSE:		CCS can display real-time values in a ran display appropriate units-of-measure and				
DESCRIPTION:	defined page r	ogin to the CCS main page. Select Real-time Page from Tool Bar. Open efined page named 1753. Start canned TLM data for format zn at the FObserve the page. Capture and print the final page content.				
LVL-1 THREADS:	6 7 17A					
LVL-2 THREADS:						
TEST_INPUTS:		zn TLM data. Xrunner script main1753 ar -defined real-time page named 1753 .	nd all scripts called by			
PREREQUISITES:		online in nominal state. Tester logged into to animate main1753 script. PSS setup to				
EXPECTED RESULTS:	mnemonic valu	al-time page during the test run. Check to les are correct for each format. Check to e correct. Check to make sure that one of onic tag.	make sure that the units-			
EVAL CRITERIA.	Visually verify	he results of the test during the test run.				

TEST CASE ID:		1754	•				
TEST CASE NA	ME:	Stripchart Components					
DUDDOCE.	Varify the CIII	provide	on the CCS	usor the feeil	itios to bui	ld ugar dafina	d pages
PURPOSE:	Verify the GUI containing strip values and lab out on a select	charts els, tim	. Verify that estamps, ti	t the user can me intervals,	vary the t	ime span, dura	ation, axis
DESCRIPTION:	Login to the Co appropriate me TLM. Use the O Zoom in and o the final page o	enu opt GUI opt ut on a	ions to build tions to var selected a	d a new page y the stripcha	containing rt paramet	g a strip chart. ers. Observe a	Start PSS all changes
LVL-1 THREADS:	6 7 17A						
LVL-2 THREADS:							
TEST_INPUTS:	Xrunner script scenario file.	main17	754 and all	scripts called	by main17	754. PSS 1702	2tf.scn
PREREQUISITES:	CCS and PSS workstation. Xr data using 170	runner i	ready to an				
EXPECTED RESULTS:	Observe that the Observe that the					ge containing a	strip char

EVAL. CRITERIA: Visually verify the results of the test during the test run.

TEST CASE ID:		1755	,			
TEST CASE NAME:		Tab Components				
PURPOSE:	Verify the GUI provides the CCS user the facilities to build user-defined pages containing tab components. Verify the user can modify the tab names.					
DESCRIPTION:	Login to the CCS main page. Select Real-time Page from Tool Bar. Select appropriate menu options to build a new page with Tab components. Change the names of the tabs. Capture and print a copy of the final page content.					
LVL-1 THREADS:	6 7 17A					
LVL-2 THREADS:						
TEST_INPUTS:	Xrunner script main1755 and all scripts called by main1755.					
PREREQUISITES:	CCS online and in nominal state. Tester logged into a CCS user workstation. Xrunner ready to animate main1755 script.					
EXPECTED RESULTS:	Observe that the tester can successfully build a new page containing tab components. Observe that the tab names can be modified.					
EVAL CRITERIA.	Visually verify t	the res	ults of the test du	uring the test run		